| Index of Claims                         |                |  |          |  |          |  |          |   |                 |          |            |          | 1  | Appl                   | icati       | io            | n/Contro | Applicant(s)/Patent under Reexamination |          |          |          |              |                |          |          |         |  |          |  |
|---|----------------|--|----------|--|----------|--|----------|---|-----------------|----------|------------|----------|--|------------------------|-------------|---------------|----------|---|----------|----------|----------|--------------|----------------|----------|----------|---------|--|----------|--|
|   |                |  |          |  |          |  |          |   |                 |          |            |          | 1  | 0/7                    | 85,4        | <b>1</b> 7    | 2        |   |          |          | L        | AL.          |                |          |          |         |  |          |  |
|   |                |  |          |  |          |  |          |   |                 |          |            |          |  | 10/785,472<br>Examiner |             |               |          |   |          |          |          |              | Art Unit       |          |          |         |  |          |  |
|   |                |  |          |  |          |  |          |   |                 |          |            |          |  |                        |             |               |          |   |          |          |          |              |                |          |          |         |  |          |  |
| 100,00,000,000,000,000,000,000,000,000, |                |  |          |  |          |  |          |   |                 |          |            |          | F  | . Pi                   | /anderV     | 1             | 644      |   | $\perp$  |          |          |              |                |          |          |         |  |          |  |
|   |                |  |          | -  |          |  | 1        |   | П               | (7       | hrou       | ıah r    | ume  |                        |             | Г             | Т        |   |          |          |          |              |                |          |          |         | 7  |          |  |
|   |                | <b> </b>   | R        | eje  | cte      | ed   |          |   |                 |          | C          | ance     | lled   | u.,                    |             | N             | 1        | Non-Elected                             |          |          | Α        | Appeal       |                |          |          |         |  |          |  |
|   |                | =  | Α        | llo  | we       | d  | -        |   | ÷               |          | Restricted |          |  |                        |             |               |          | Interfer                                | ıce      |          | Objected |              |                |          |          |         |  |          |  |
|   |                |  |          |  |          |  |          |   | Ш               |          |            |          |  |                        |             | L             |          |   |          |          |          |              |                |          |          |         | J  |          |  |
| Cla                                     | im             | Q/   |          | Date   |          |  |          | _ |                 |          | CI         | aim      |  |                        | D           | ate           | _        |   |          | Claim    |          |              |                | Ρi       | ate      | _       | $\overline{}$  |          |  |
| _                                       | ā              | 9  |          |  |          |  |          |   |                 |          | _          | - a      |  |                        |             |               |          |   | _        | _   _    |          |              |                |          |          |         |  |          |  |
| Final                                   | Original       | 5/15/06  |          |  |          |  |          |   |                 |          | Final      | Original |  |                        | 1           | - }           |          |   | 100      | Original |          |              |                | -        |          |         |  |          |  |
| ъ.                                      | Ö              | 5/1  |          |  |          |  |          |   |                 |          | "          | ō        | 11   |                        |             | - 1           | Ì        |   | "        | -   ō    |          |              |                | -1       |          |         |  |          |  |
|   | 1              |  |          | -  | -        | ┢  | Н        | _ | -               |          |            | 51       | +  | +                      | +           | +             | +        | +                                       | -        | 101      |          |              | $\dashv$       | +        | ╅        | +       | +-   | Н        |  |
|   | 1              | <del>                                     </del> | _        | _  | -        | $\vdash$   | Н        | _ | $\vdash$        | $\dashv$ |            | 52       |  | +                      | 1           | $\neg$        | 7        | +                                       | -        | 102      |          | $\neg$       | $\top$         | +        | $\top$   | $\top$  | 1  |          |  |
|   | 1              |  |          |  |          | $\vdash$   | П        | _ |                 | _        |            | 53       |  |                        | $\Box$      |               |          |   |          | 103      | 3        |              |                |          |          |         |  |          |  |
|   | 4              |  |          |  |          |  |          |   |                 |          |            | 54       |  |                        |             |               |          |   |          | 104      |          |              |                |          |          | 1       | $oldsymbol{ol}}}}}}}}}}}}}}}}}}$ | Ш        |  |
|   | 5              | oxdot  |          |  |          | L  |          |   |                 |          |            | 55       |  |                        |             |               | 1        | $\perp$                                 |          | 108      |          |              | $\perp$        | $\perp$  |          | +       | $\bot$   | Ш        |  |
|   | 6              | <u>L</u>   | _        | _  | <u> </u> | L  | Ш        |   | $\sqcup$        |          |            | 56       | $\sqcup$   | 4_                     | $\bot \bot$ | -             | _        | +                                       | _        | 106      |          |              | -              |          | - -      | - -     |  | $\vdash$ |  |
|   | 4              | <u> </u>   | _        | _  | ⊢        | _  | $\vdash$ |   | -               | _        |            | 57       |  | +-                     | +           |               | 4        |   | -        | 107      |          | -            | -              | +        | +        | +       | +  | Н        |  |
|   | 8              |  | _        | <u> </u>   | <u> </u> |  |          |   | ╌┼              | $\dashv$ |            | 58<br>59 | <del>                                     </del> | +                      | +           | +             | +        |   | -        | 108      |          |              | $\vdash$       | $\dashv$ |          | ╬       | +  | Н        |  |
|   | 9              | ₩  |          | ⊢  | ├        | ├-   | $\vdash$ | - | $\vdash$        | $\dashv$ | -          | 60       | ┼┼   |                        | +           | +             | +        |   | -        | 110      |          | _            |                | $\dashv$ |          | +-      | +  | Н        |  |
|   | 1              | ├  | -        | $\vdash$   | ┢        | $\vdash$   | -        |   | $\vdash$        |          |            | 61       | +++  | _                      | +           | $\dashv$      | +        | +++                                     |          | 11       |          |              |                |          | $\dashv$ | $\top$  | 1  | Н        |  |
|   | 12             | ┢  |          |  | $\vdash$ | <del>                                     </del> |          | _ | $\Box$          | <u> </u> |            | 62       | $\vdash$   |                        | +           | $\neg \vdash$ | +        |   |          | 11:      |          | _            |                | 十        | 7        |         | $\top$   |          |  |
|   | 13             | T  |          | $\vdash$   |          |  | $\Box$   | _ | П               |          |            | 63       |  |                        |             | $\neg$        | 7        |   |          | 113      | 3        |              |                | T        | $\top$   |         | $\top$   | П        |  |
|   | 14             |  |          |  |          |  |          |   | $\Box$          |          |            | 64       | $\sqcap$   |                        | $\top$      | T             | T        |   |          | 114      |          |              |                |          |          |         |  |          |  |
|   | 13             | 1  |          |  | İ        |  |          |   |                 |          |            | 65       |  |                        |             |               | T        |   |          | 11!      |          |              |                |          |          | $\perp$ |  |          |  |
| 1                                       | 16             | Ξ  |          |  |          |  |          |   |                 |          |            | 66       |  |                        |             |               | $\perp$  |   | L        | 110      |          |              | Ш              |          |          |         |  |          |  |
| 2                                       | 17             | =  |          |  |          |  |          |   |                 | _        |            | 67       |  | Ц                      | 11          |               | 1        |   | L        | 11       |          |              | $\sqcup$       | _        |          | _       | $\perp$  | Ш        |  |
| 3                                       | 18             | =  | <u></u>  |  |          | <u></u>  |          |   | $\sqcup$        | _        |            | 68       | $\sqcup$   |                        | +           |               | 4        |   | $\vdash$ | 118      |          |              | $\sqcup$       | _        | $\perp$  | _       | 4  | <u> </u> |  |
|   | 19             | <u> </u>   | _        | <b>L</b>   | <b>—</b> | <b> </b>   |          |   | $\sqcup$        | _        | <u> </u>   | 69       | <del>                                     </del> | +                      | +           |               | 4        |   | -        | 119      |          | <u> </u>     | $\vdash$       | +        | $\perp$  |         | +-   | $\vdash$ |  |
|   | 20             |  | <u> </u> | ₩  | <u> </u> | $\vdash$   |          |   | $\vdash \vdash$ | _        | -          | 70       | ┼┼-  | +                      | +           |               | +        | ++                                      | -        | 120      |          |              | $\vdash$       | +        | +        | +-      | +-'  | $\vdash$ |  |
|   | 41             | <del> </del>                                     | -        | ⊢  | ⊢        | ├-   | +-       |   | $\vdash$        | $\dashv$ | -          | 71       | ┼┼-  | +                      | +           |               | +        | +                                       | -        | 12       |          |              |                | +        |          | +       | +  | $\vdash$ |  |
|   | 22<br>23<br>24 | <b>├</b>   | $\vdash$ | $\vdash$   | $\vdash$ | -  | +        |   | $\vdash$        | $\dashv$ | $\vdash$   | 73       | ┼╌┼╴   | +                      | ++          |               | +        | ++                                      |          | 12       |          | -            | $\vdash$       | +        | +        | +       | +  | $\vdash$ |  |
|   | 12             | +  | $\vdash$ | <del>                                     </del> | $\vdash$ | -  | +-       | _ | $\vdash$        | $\dashv$ | -          | 74       | ++   | +                      | +           | _             | +        | +H                                      | -        | 12       |          |              | $\vdash$       | $\dashv$ | +        | +       | +  | $\vdash$ |  |
|   | #              | ₩  | ⊢        | ₩  | +        | -  | 1        | _ | 1-1             | $\dashv$ |            | 75       | ╅  |                        | +           |               | +        | -                                       | ⊢-       | 12       |          | <del> </del> | <del>   </del> | $\dashv$ | -        |         | 1  | T        |  |

| i i i    | Örj                  | 5/1      |  |          |          |  |          |          |               |           | į iE     |          | ō  |          |          |  |          |        |                 |           |        |          |   | ű. | Ö   |          |          |        |   |        |   | 1        |          |        |
|----------|----------------------|----------|--|----------|----------|--|----------|----------|---------------|-----------|----------|----------|----|----------|----------|--|----------|--------|-----------------|-----------|--------|----------|---|----|-----|----------|----------|--------|---|--------|---|----------|----------|--------|
| -        |                      | -        | -  | -        |          | $\vdash$   | $\vdash$ | Н        |               | _         |          | +:       | 51 |          |          |  |          |        | _               | 一         |        | H        | i |    | 101 |          | Н        |        |   |        |   | T        | $\neg$   | $\neg$ |
|          | •                    | Н        |  | _        |          | $\vdash$   |          | Н        | $\neg$        | _         |          | 7        | 52 | _        |          |  | П        |        | $\neg$          | $\neg$    |        | П        | i |    | 102 |          | П        |        |   |        |   | $\neg$   | $\neg$   |        |
|          | 1                    |          |  |          |          | $\vdash$   | $\vdash$ | Н        |               | $\neg$    |          |          | 53 |          |          |  | П        |        |                 | $\neg$    |        |          | 1 |    | 103 |          |          | П      |   | $\neg$ |   | $\neg$   | コ        | $\neg$ |
|          | 1                    | _        |  | $\neg$   |          |  |          | Н        |               | $\neg$    |          | 1        | 54 |          |          |  | Н        | $\neg$ | 寸               | $\neg$    |        | П        |   |    | 104 |          |          |        |   | $\neg$ | _ | $\neg$   | コ        | コ      |
|          | 5                    |          |  |          |          | $\vdash$   |          | Н        |               | $\dashv$  |          |          | 55 |          | _        | _  |          |        | $\neg$          | ┪         |        |          |   |    | 105 | $\vdash$ | Н        |        |   |        |   | T        | $\neg$   | $\Box$ |
|          | 6                    | $\vdash$ | $\dashv$   | $\neg$   | $\vdash$ | -  |          |          |               | $\neg$    |          |          | 56 |          |          |  | П        |        | _               | $\neg$    |        |          | 1 |    | 106 |          | $\Box$   |        |   |        |   |          |          | $\neg$ |
|          | 7                    |          | $\dashv$   | _        | _        | $\vdash$   |          | Н        |               | $\dashv$  |          | 1        | 57 |          | $\vdash$ | $\vdash$   |          |        | 寸               | ヿ         |        |          | 1 |    | 107 |          | П        |        |   |        |   |          | 一        |        |
|          | 8                    | _        |  | _        |          |  |          | Н        |               | $\dashv$  |          |          | 58 |          |          |  |          |        | $\neg \uparrow$ |           |        |          | 1 |    | 108 |          |          |        |   |        |   |          | $\neg$   | $\neg$ |
| -        | 9                    |          | Н  | $\neg$   |          |  |          |          |               | $\dashv$  | _        | 7        | 59 |          |          |  |          |        | $\Box$          | $\neg$    |        |          | 1 |    | 109 |          |          |        |   |        |   | $\neg$   | ヿ        | $\Box$ |
| <u> </u> | 10                   | $\vdash$ |  |          |          | <del>                                     </del> |          |          |               | $\neg$    | $\vdash$ |          | 60 |          | ┢        |  |          |        |                 | 一         |        | $\vdash$ | i |    | 110 | _        |          |        |   |        |   | $\neg$   | $\neg$   | $\neg$ |
|          | 11                   | _        |  |          |          | ┰  |          |          | П             |           |          |          | 61 |          | <u> </u> | _  |          |        |                 |           | _      |          | 1 |    | 111 |          | _        |        |   |        |   | $\neg$   | $\neg$   |        |
| _        | 12                   |          | $\vdash$   |          | $\vdash$ | ┢  |          | Н        | П             |           | .        |          | 62 | _        | _        |  |          |        | $\neg$          |           |        |          | 1 |    | 112 | $\vdash$ | $\vdash$ |        |   |        |   |          |          |        |
| -        | 13                   |          |  |          | $\vdash$ | ┢  |          |          | П             |           |          |          | 63 |          | _        |  |          |        | $\neg$          | $\neg$    |        |          | 1 |    | 113 | Т        |          |        |   |        |   | $\neg$   | $\neg$   |        |
|          | 14                   | Ι        |  |          | $\vdash$ | $\vdash$   |          |          | П             |           |          | 1        | 64 |          |          | 1  |          |        |                 |           |        |          | 1 |    | 114 |          |          |        |   |        |   | $\Box$   | $\neg$   | П      |
| $\vdash$ | 13                   |          |  |          | $\vdash$ | $\vdash$   |          | -        |               | $\neg$    |          | +        | 65 |          |          | <del>                                     </del> | -        |        | $\Box$          | $\exists$ |        |          | 1 |    | 115 | <u> </u> |          | $\Box$ |   |        |   | $\sqcap$ | ヿ        | $\neg$ |
| 1        | 16                   | =        | $\vdash$   | _        | $\vdash$ | $\vdash$   | $\vdash$ | М        |               |           |          |          | 66 | П        | $\vdash$ | <del>                                     </del> | _        |        | $\Box$          |           |        | Г        | 1 |    | 116 | <u> </u> |          |        |   |        |   | $\Box$   | コ        | $\neg$ |
| 2        | 17                   | =        | Н  |          | $\vdash$ | T  | T        | $\vdash$ |               | $\neg$    |          |          | 67 |          | Г        | $\vdash$   |          |        | $\Box$          | T         |        | Г        | 1 |    | 117 | <u> </u> | 1        | Π      |   |        |   | $\sqcap$ | $\dashv$ | $\Box$ |
| 3        | 18                   | =        |  |          | $\vdash$ |  | $\vdash$ |          |               | $\dashv$  | -        |          | 68 |          |          | _  | -        |        |                 |           |        |          | 1 |    | 118 | _        |          |        |   |        |   |          | $\Box$   | $\Box$ |
| <u> </u> | 19                   |          | -  |          | $\vdash$ | T  | ┪        | _        |               |           | <u> </u> |          | 69 | Г        | _        |  |          |        |                 |           |        |          | 1 |    | 119 |          |          |        |   |        |   | П        | $\neg$   | П      |
|          | 20                   | _        |  |          | $\vdash$ | $\vdash$   |          | Т        | П             |           |          | T        | 70 | <u> </u> | _        |  |          |        |                 |           |        | Г        | 1 |    | 120 |          | Г        |        |   |        |   |          | $\neg$   | $\neg$ |
|          | 31                   |          | _  |          |          | $\vdash$   | _        |          |               | _         |          | $\top$   | 71 | _        | _        |  |          |        |                 |           |        | Г        | 1 |    | 121 |          |          |        |   |        |   |          | $\neg$   | $\Box$ |
| $\vdash$ | 22                   |          |  |          |          | $\vdash$   |          |          |               |           |          |          | 72 |          | 1        |  |          |        | П               | _         |        |          | 1 |    | 122 |          |          |        |   |        |   | П        | $\neg$   | П      |
| $\vdash$ | 23                   | -        |  |          | $\vdash$ | _  | _        |          |               | _         |          | +        | 73 | _        | 1        |  |          |        |                 |           |        |          | 1 |    | 123 |          |          |        |   |        |   | $\Box$   | $\Box$   | П      |
|          | 74                   | -        |  |          | -        | $\vdash$   | -        | Т        |               | $\neg$    | -        |          | 74 | _        |          |  |          |        |                 |           |        | 一        | 1 |    | 124 |          |          |        |   |        |   | П        | $\Box$   | П      |
|          | 1                    | $\vdash$ |  |          |          | <del>                                     </del> | 1        | T        | Т             | $\neg$    | -        | 7        | 75 | Г        | T        |  |          |        |                 |           |        |          | 1 |    | 125 |          |          |        |   |        |   |          |          | П      |
|          | 24<br>20<br>20<br>24 |          |  |          | $\vdash$ | _  | $\vdash$ | Г        |               | $\neg$    |          |          | 76 | $\vdash$ |          |  |          |        |                 |           |        |          | 1 |    | 126 |          |          |        |   |        |   |          |          | П      |
|          | 2                    |          |  |          |          | <b> </b>   |          |          |               | _         |          | T        | 77 | _        |          |  |          |        |                 |           |        |          |   |    | 127 |          |          |        |   |        |   |          |          | П      |
| -        | 28                   |          |  |          |          | 1  | t        | Ħ        |               | $\dashv$  |          | 7        | 78 | Г        | T        |  |          |        |                 |           |        |          | 1 |    | 128 |          | Г        |        |   |        |   |          |          | П      |
|          | 29                   | $\vdash$ | $\vdash$   |          |          |  | t        | Ħ        |               | $\exists$ |          |          | 79 |          | T        | T  |          | _      |                 |           |        |          |   |    | 129 |          |          |        |   |        |   | $\Box$   |          | П      |
|          | 30                   | $\vdash$ |  |          |          | <u> </u>   |          |          |               |           |          | 7        | 80 |          | Г        | T  | Г        |        |                 |           |        |          | 1 |    | 130 |          |          |        |   |        |   | П        |          |        |
|          | 31                   |          |  |          | Т        | <b>—</b>   |          |          |               | $\neg$    |          |          | 81 |          | Г        | Г  | Г        |        |                 |           |        |          | 1 |    | 131 |          |          |        |   |        |   | П        |          |        |
| <b> </b> | 32                   | _        | Г  |          |          |  | 1        | T        |               |           |          | 十        | 82 |          | T        |  | $\vdash$ |        |                 | _         |        |          | 1 |    | 132 |          |          |        |   |        |   |          | П        | П      |
|          | 33                   |          |  |          | Г        | Г  | T        | Г        | Г             |           |          | $\top$   | 83 | Г        |          |  |          |        | П               |           |        | Ī        | 1 |    | 133 |          |          |        |   |        |   | П        | П        | П      |
|          | 34                   |          |  | _        | Г        | T  | ┢        | T        | $\overline{}$ |           |          |          | 84 |          |          |  | _        | Г      |                 |           |        |          | 1 |    | 134 |          |          |        |   |        |   |          |          |        |
|          | 35                   |          |  | _        | $\vdash$ |  | T        | 一        |               |           |          | $\top$   | 85 |          |          |  |          |        | П               |           |        |          | 1 |    | 135 |          | Π        |        |   |        |   | П        | П        | $\Box$ |
|          | 36                   |          |  |          | Т        | $\vdash$   | 1        |          |               |           |          |          | 86 |          | Г        |  |          |        |                 |           |        |          | 1 |    | 136 |          |          |        |   |        |   | $\sqcap$ |          | $\Box$ |
|          | 37                   | T        |  | Т        |          | Г  |          | ı        |               |           |          | 7        | 87 |          |          |  | $\vdash$ |        |                 |           |        |          | 1 |    | 137 | Π        | П        |        |   |        |   | П        |          |        |
|          | 38                   | Γ        |  |          | Г        | Т  |          |          |               |           |          | $\dashv$ | 88 |          | T        |  | Г        |        |                 |           |        | Γ        | 1 |    | 138 |          | П        |        |   | Г      |   |          |          | $\Box$ |
|          | 39                   | $\vdash$ |  |          |          |  |          |          |               |           |          | 十        | 89 |          | $\vdash$ |  |          |        | П               |           |        |          | 1 |    | 139 |          |          | Г      |   |        |   | П        |          | П      |
|          | 40                   |          | Г  |          |          |  |          |          |               |           |          |          | 90 |          |          |  |          |        |                 |           |        |          | 1 |    | 140 |          |          |        |   |        |   |          |          | П      |
|          | 41                   | Г        |  |          |          |  |          |          |               |           |          | 7        | 91 |          | Г        |  |          | Γ      |                 |           |        |          | 1 |    | 141 |          |          |        |   |        |   |          |          | П      |
|          | 42                   | Г        | Г  |          |          |  |          | Г        |               |           |          |          | 92 |          | 1        |  |          |        | П               |           |        |          | 1 |    | 142 | Г        |          |        |   |        | Г |          | П        | П      |
|          | 43                   | Г        | $\vdash$   | _        | T-       | T  |          | $I^-$    |               |           |          |          | 93 | Г        | 1        |  | 1        | Γ      | $\Box$          |           |        | Г        | 1 |    | 143 | Π        |          |        |   |        |   |          |          |        |
|          | 44                   | Т        |  | _        | 1        | 1  | T        | $\vdash$ |               |           |          |          | 94 | Г        |          |  | $\vdash$ |        | П               | _         |        | $\top$   | 1 |    | 144 | Π        | Π        |        |   |        |   | $\sqcap$ |          | П      |
|          | 45                   |          |  | _        |          | Г  | T        | Τ        | Г             | $\Box$    |          | 1        | 95 | Г        | 1        | Γ  |          |        | П               |           |        | Π        | 1 |    | 145 | Γ        | Π        |        |   |        |   |          |          |        |
|          | 46                   |          |  | $\vdash$ | $\vdash$ | T  | T        | T        | $\vdash$      | $\neg$    |          | 十        | 96 | Г        | $\vdash$ |  | 1        |        | П               |           |        | 1        | 1 |    | 146 | Г        |          |        | Г |        |   | $\Box$   |          | П      |
|          | 47                   | $\vdash$ |  |          | $\vdash$ | $\vdash$   | 1        |          | <u> </u>      | $\neg$    | _        |          | 97 |          |          |  | 1        |        | П               |           | $\Box$ |          | 1 |    | 147 | Γ        |          |        |   |        |   | П        |          | П      |
|          | 48                   |          |  | Т        | $\vdash$ | 1  | t        | $\vdash$ |               | $\neg$    |          | 十        | 98 | T        | Г        |  | Т        | Г      | П               |           |        | $\vdash$ | 1 |    | 148 |          | Т        |        | T | Г      |   |          | П        | П      |
|          | 49                   |          |  | $\vdash$ |          | T  | T        | T        | $\vdash$      | $\vdash$  |          | $\top$   | 99 | 1        | Т        | t  | T        | 1      | П               |           |        |          | 1 |    | 149 | T        |          | Т      | Т | Г      |   | П        | П        | П      |
|          | 50                   | $\vdash$ | <del>                                     </del> |          | Г        | T  | T        | T        | П             | $\sqcap$  |          |          | 00 | Т        |          | 1  | Π        |        | П               |           | Г      | Т        | 1 |    | 150 | Π        | Г        |        | T | Г      | Г | П        | П        | П      |
|          |                      | -        |  | 1        |          | _  | -        | <u> </u> |               | لــــ     | <u> </u> |          |    |          |          |  | -        |        |                 |           |        | ·        | _ |    |     | •        |          |        |   |        |   | ш        |          |        |